## In the Claims:

Please cancel claims 4 and 7 to 15 without prejudice and add the following claims 16 to 27:

1(previously presented). An optical element for an optical data transfer device said optical element comprising an optical glass with an index of refraction ( $\mathbf{n_d}$ ) greater than or equal to 1.70, an Abbé number ( $v_d$ ) greater than or equal to 35 and a density ( $\rho$ ) that is less than or equal to 4.5 g/cm<sup>3</sup>.

2(previously presented). The optical element as defined in claim 1, wherein said Abbé number ( $v_d$ ) is greater than or equal to 40.

3(previously presented). The optical element as defined in claim 1, wherein said density ( $\rho$ ) that is less than or equal to 4.3 g/cm<sup>3</sup>.

4(canceled).

5(previously presented). A read-and-write device for optical data transfer, said read-and-write device comprising an optical glass with an index of refraction ( $\mathbf{n_d}$ ) greater than or equal to 1.70, an Abbé number ( $v_d$ ) that is greater than or equal to 35 and a density ( $\rho$ ) that is less than or equal to 4.5 g/cm<sup>3</sup>.

6(previously presented). The read-and-write device with a movable read-write head and at least one optical element, said at least one optical element comprising an optical glass with an index of refraction ( $\mathbf{n_d}$ ) greater than or equal to 1.70, an Abbé number ( $v_d$ ) greater than or equal to 35 and a density ( $\rho$ ) is less than or equal to 4.5 g/cm<sup>3</sup>.

Claims 7 to 15 (canceled).

16(new). The optical element as defined in claim 1, wherein said optical glass is a lanthanate borate glass, said lanthanate borate glass necessarily comprises  $La_2O_3$ ,  $B_2O_3$  and  $ZrO_2$  and said lanthanate borate glass includes either  $Y_2O_3$  or  $Nb_2O_5$ , and wherein a sample of said lanthante borate glass with a 25 mm thickness has a spectral transmission purity degree of at least percent 70.8 percent at a wavelength of 400 nm and a partial dispersion of no more than 0.567 in the blue spectral region.

17(new). The optical element as defined in claim 1, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La <sub>2</sub> O <sub>3</sub>	30 to 45
B <sub>2</sub> O <sub>3</sub>	30 to 40
Al <sub>2</sub> O <sub>3</sub>	0 to 5
PhO	0.1 to 5

Li <sub>2</sub> O	0 to 10
Na <sub>2</sub> O	0 to 10
K₂O	0 to 10
Rb₂O	0 to 10
Cs <sub>2</sub> O	0 to 10
MgO	0 to 8
CaO	0 to 8
SrO	· 0 to 8
BaO	0 to 8
ZnO	1 to 10
TiO <sub>2</sub>	0 to 5
ZrO <sub>2</sub>	1 to 10
$Y_2O_3$	1 to 8
Yb <sub>2</sub> O <sub>3</sub>	0.1 to 2
$Gd_2O_3$	0.1 to 5
Nb <sub>2</sub> O <sub>5</sub>	0.1 to 10
with MgO+CaO+SrO+BaO	0 to 10
with Li <sub>2</sub> O+Na <sub>2</sub> O+K <sub>2</sub> O+Rb <sub>2</sub> O+Cs <sub>2</sub> O	0 to 10;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of SO<sub>4</sub>-2, Cl<sup>-</sup>, Sb<sub>2</sub>O<sub>3</sub>, As<sub>2</sub>O<sub>3</sub>, SnO<sub>2</sub> and CeO<sub>2</sub>.

18(new). The optical element as defined in claim 1, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La <sub>2</sub> O <sub>3</sub>	35 to 50
B <sub>2</sub> O <sub>3</sub>	30 to 40
Al <sub>2</sub> O <sub>3</sub>	0 to 5
SiO <sub>2</sub>	0 to 8
GeO <sub>2</sub>	0.5 to 15
Li <sub>2</sub> O	0 to 10
Na <sub>2</sub> O	0 to 10
K₂O	0 to 10
Rb <sub>2</sub> O	0 to 10
Cs <sub>2</sub> O	0 to 10
SrO	0 to 2
BaO	0.1 to 7
ZnO	0 to 5
ZrO <sub>2</sub>	0.1 to 8
Y <sub>2</sub> O <sub>3</sub>	0.1 to 6
Gd <sub>2</sub> O <sub>3</sub>	0 to 5
Nb <sub>2</sub> O <sub>5</sub>	1 to 10
With Li <sub>2</sub> O+Na <sub>2</sub> O+K <sub>2</sub> O+Rb <sub>2</sub> O+Cs <sub>2</sub> O	0 to 10;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at

least one refining agent is selected from the group consisting of  $SO_4^{-2}$ ,  $Cl^-$ ,  $Sb_2O_3$ ,  $As_2O_3$ ,  $SnO_2$  and  $CeO_2$ .

19(new). The optical element as defined in claim 1, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La <sub>2</sub> O <sub>3</sub>	40 to 55
$B_2O_3$	22 to 32
$Al_2O_3$	0 to 5
SiO <sub>2</sub>	1 to 8
Li <sub>2</sub> O	0 to 10
Na <sub>2</sub> O	0 to 10
K₂O	0 to 10
Rb <sub>2</sub> O	0 to 10
Cs <sub>2</sub> O	0 to 10
SrO	0 to 8
BaO	0 to 2
ZnO	0.5 to 6
TiO <sub>2</sub>	0 to 3
ZrO <sub>2</sub>	2 to 10
$Y_2O_3$	3 to 11
With Li <sub>2</sub> O+Na <sub>2</sub> O+K <sub>2</sub> O+Rb <sub>2</sub> O+Cs <sub>2</sub> O	0 to 8;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of SO<sub>4</sub><sup>-2</sup>, Cl<sup>-</sup>, Sb<sub>2</sub>O<sub>3</sub>, As<sub>2</sub>O<sub>3</sub>, SnO<sub>2</sub> and CeO<sub>2</sub>.

20(new). The optical element as defined in claim 1, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

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La <sub>2</sub> O <sub>3</sub>	10 to 16
$B_2O_3$	1 to 8
Al <sub>2</sub> O <sub>3</sub>	0 to 3
SiO <sub>2</sub>	20 to 30
Li <sub>2</sub> O	0 to 10
Na <sub>2</sub> O	0 to 10
K <sub>2</sub> O	0 to 10
Rb₂O	0 to 10
Cs <sub>2</sub> O	0 to 10
SrO	0 to 8
BaO	0 to 8
ZnO	1 to 8
ZrO <sub>2</sub>	0.5 to 6
TiO <sub>2</sub>	3 to 11
Nb <sub>2</sub> O <sub>5</sub>	10 to 18
With Li <sub>2</sub> O+Na <sub>2</sub> O+K <sub>2</sub> O+Rb <sub>2</sub> O+Cs <sub>2</sub> O	0 to 8;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of SO<sub>4</sub><sup>-2</sup>, Cl<sup>-</sup>, Sb<sub>2</sub>O<sub>3</sub>, As<sub>2</sub>O<sub>3</sub>, SnO<sub>2</sub> and CeO<sub>2</sub>.

21(new). The read-and-write device as defined in claim 5 or 6, wherein said density ( $\rho$ ) that is less than or equal to 4.3 g/cm<sup>3</sup>.

22(new). The read-and-write device as defined in claim 5 or 6, wherein a sample of said optical glass with a 25 mm thickness has a spectral transmission purity degree of at least percent 70.8 percent at a wavelength of 400 nm and a partial dispersion of no more than 0.567 in the blue spectral region.

23(new). The read-and-write device as defined in claim 5 or 6, wherein said optical glass is a lanthanate borate glass, said lanthanate borate glass necessarily comprises La<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub> and ZrO<sub>2</sub> and said lanthanate borate glass includes either Y<sub>2</sub>O<sub>3</sub> or Nb<sub>2</sub>O<sub>5</sub>.

24(new). The read-and-write device as defined in claim 5, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

 $La_2O_3$  30 to 45  $B_2O_3$  30 to 40

 $Al_2O_3$  0 to 5

PbO	0.1 to 5
Li <sub>2</sub> O	0 to 10
Na <sub>2</sub> O	0 to 10
K₂O	0 to 10
Rb₂O	0 to 10
Cs₂O	0 to 10
MgO	0 to 8
CaO	0 to 8
SrO	0 to 8
ВаО	0 to 8
ZnO	1 to 10
TiO <sub>2</sub>	0 to 5
ZrO <sub>2</sub>	1 to 10
$Y_2O_3$	1 to 8
Yb <sub>2</sub> O <sub>3</sub>	0.1 to 2
$Gd_2O_3$	0.1 to 5
Nb <sub>2</sub> O <sub>5</sub>	0.1 to 10
with MgO+CaO+SrO+BaO	0 to 10
with Li <sub>2</sub> O+Na <sub>2</sub> O+K <sub>2</sub> O+Rb <sub>2</sub> O+Cs <sub>2</sub> O	0 to 10;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of  $SO_4^{-2}$ ,  $CI^-$ ,  $Sb_2O_3$ ,  $As_2O_3$ ,  $SnO_2$  and  $CeO_2$ .

25(new). The read-and-write device as defined in claim 5, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La <sub>2</sub> O <sub>3</sub>	35 to 50
$B_2O_3$	30 to 40
$Al_2O_3$	0 to 5
SiO <sub>2</sub>	0 to 8
GeO <sub>2</sub>	0.5 to 15
Li <sub>2</sub> O	0 to 10
Na <sub>2</sub> O	0 to 10
K₂O	0 to 10
Rb₂O	0 to 10
Cs <sub>2</sub> O	0 to 10
SrO	0 to 2
BaO	0.1 to 7
ZnO	0 to 5
ZrO <sub>2</sub>	0.1 to 8
$Y_2O_3$	0.1 to 6
Gd <sub>2</sub> O <sub>3</sub>	0 to 5
Nb <sub>2</sub> O <sub>5</sub>	1 to 10
With Li <sub>2</sub> O+Na <sub>2</sub> O+K <sub>2</sub> O+Rb <sub>2</sub> O+Cs <sub>2</sub> O	0 to 10;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of SO<sub>4</sub><sup>-2</sup>, Cl<sup>-</sup>, Sb<sub>2</sub>O<sub>3</sub>, As<sub>2</sub>O<sub>3</sub>, SnO<sub>2</sub> and CeO<sub>2</sub>.

26(new). The read-and-write device as defined in claim 5, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La₂O₃	40 to 55
$B_2O_3$	22 to 32
Al <sub>2</sub> O <sub>3</sub>	0 to 5
SiO <sub>2</sub>	1 to 8
Li <sub>2</sub> O	0 to 10
Na₂O	0 to 10
K <sub>2</sub> O	0 to 10
Rb₂O	0 to 10
Cs <sub>2</sub> O	0 to 10
SrO	0 to 8
BaO	0 to 2
ZnO	0.5 to 6
TiO <sub>2</sub>	0 to 3
ZrO <sub>2</sub>	2 to 10
$Y_2O_3$	3 to 11
With Li <sub>2</sub> O+Na <sub>2</sub> O+K <sub>2</sub> O+Rb <sub>2</sub> O+Cs <sub>2</sub> O	0 to 8;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of  $SO_4^{-2}$ ,  $CI^-$ ,  $Sb_2O_3$ ,  $As_2O_3$ ,  $SnO_2$  and  $CeO_2$ .

27(new). The read-and-write device as defined in claim 5, wherein said optical glass is a lanthanate borate glass with a composition, in percent by weight based on oxide content, which consists of:

La <sub>2</sub> O <sub>3</sub>	10 to 16
$B_2O_3$	1 to 8
Al <sub>2</sub> O <sub>3</sub>	0 to 3
SiO <sub>2</sub>	20 to 30
Li <sub>2</sub> O	0 to 10
Na <sub>2</sub> O	0 to 10
K <sub>2</sub> O	0 to 10
Rb₂O	0 to 10
Cs <sub>2</sub> O	0 to 10
SrO	0 to 8
BaO	0 to 8
ZnO	1 to 8
ZrO <sub>2</sub>	0.5 to 6
TiO <sub>2</sub>	3 to 11
Nb <sub>2</sub> O <sub>5</sub>	10 to 18
With Li <sub>2</sub> O+Na <sub>2</sub> O+K <sub>2</sub> O+Rb <sub>2</sub> O+Cs <sub>2</sub> O	0 to 8;

and from 0 to 1.5 percent by weight of at least one refining agent, wherein said at least one refining agent is selected from the group consisting of  $SO_4^{-2}$ ,  $Cl^-$ ,  $Sb_2O_3$ ,  $As_2O_3$ ,  $SnO_2$  and  $CeO_2$ .